

Table 1: Significance table.

	Events _{afterαlphatαndPFSLcuts}	Events _{afterαlphatαnd$S$$L$cuts}	Events _{afterαlphat$\tau$$e$$\alphandPFSL$cuts}	Events _{afterαlphat$\tau$$e$$\alphandS$$L$cuts}
QCD _{$Pt15$}	4801 +- 4801	9602 +- 6789	4801 +- 4801	9602 +- 6789
QCD _{$Pt30$}	387.2 +- 387.2	387.2 +- 387.2	387.2 +- 387.2	387.2 +- 387.2
QCD _{$Pt80$}	67.95 +- 25.68	135.9 +- 36.32	67.95 +- 25.68	126.2 +- 35
QCD _{$Pt170$}	23.48 +- 2.532	12.56 +- 1.852	21.84 +- 2.442	10.92 +- 1.727
QCD _{$Pt300$}	2.694 +- 0.1868	0.285 +- 0.06076	2.409 +- 0.1767	0.2202 +- 0.05341
QCD _{$Pt470$}	0.5698 +- 0.028	0.002753 +- 0.001946	0.5037 +- 0.02633	0.002753 +- 0.001946
QCD _{$Pt800$}	0.0344 +- 0.00108	0 +- 0	0.03012 +- 0.001011	0 +- 0
QCD _{$Pt1400$}	0.0003132 +- 1.002e-05	0 +- 0	0.0002821 +- 9.509e-06	0 +- 0
TTbar _{temp}	66.29 +- 0.5046	62.59 +- 0.4903	59.49 +- 0.478	54.78 +- 0.4586
WJets _{temp}	203.7 +- 4.069	271.8 +- 4.699	197.3 +- 4.004	266.9 +- 4.657
ZJets _{temp}	3.969 +- 0.5452	4.793 +- 0.5991	3.969 +- 0.5452	4.868 +- 0.6038
ww _{pat$_1$}	4.54 +- 0.1871	5.095 +- 0.1982	4.417 +- 0.1845	4.948 +- 0.1953
wz _{pat$_1$}	2.395 +- 0.0849	2.913 +- 0.09363	2.35 +- 0.0841	2.829 +- 0.09227
zz _{pat$_1$}	1.084 +- 0.03298	1.498 +- 0.03878	1.056 +- 0.03255	1.451 +- 0.03816
LM2 _{temp}	2.551 +- 0.01654	2.218 +- 0.01542	2.091 +- 0.01497	1.752 +- 0.01371
Significancy	0.03419	0.02166	0.02806	0.01713
QCD Significancy	0.03509	0.02203	0.02877	0.01741